CLAIMS

What is claimed is:

1. A method for identifying host information at a physical layer of an information handling system, the information handling system including a host computer, the method comprising the steps of:

issuing a command from a host computer, the command being issued in a first transport protocol; and

sending a host information command to a device, the host information command including a host identifier identifying the host that issued the command and a tag identifying a reissued command, the reissued command including the command reissued in a second transport protocol.

2. The method of claim 1, further comprising the step of:

reissuing the command to the device, the command being reissued in the second transport protocol.

3. The method of claim 1, wherein the device does not support command queuing, further comprising the steps of:

receiving a response from the device, the response being sent following a receipt of the host information command by the device; and

reissuing the command to the device, the command being reissued in the second transport protocol.

4. The method of claim 1, wherein an appliance performs the step of sending a host information command to a device.

5. The method of claim 1, wherein an appliance performs the step of reissuing the command to the device.

6. The method of claim 1, wherein an appliance receives the command issued from the host computer.

7. The method of claim 3, wherein the appliance receives a response from the device and reissues the command to the device.

8. The method of claim 1, further comprising the step of:

providing device access to the host computer.

9. The method of claim 1, further comprising the step of:

executing the reissued command.

10. The method of claim 9, wherein the step of executing the reissued command further comprising the steps of:

creating a priority database, the priority database associating a priority parameter and a command from a host, the priority parameter being a metric measuring a relative execution property of the command in the association; and

executing the reissued command, based in part on the priority database.

11. The method of claim 9, wherein the command includes a command for accessing encrypted data of the storage device, further comprising the step of:

decrypting the data based on the host information command.

12. The method of claim 9, wherein the command includes a command for writing data to the storage device, further comprising the step of:

encrypting the data based on the host information command.

13. The method of claim 1, wherein the first transport of protocol includes a SCSI protocol.

14. The method of claim 1, wherein the first transport protocol is iSCSI, FCP, SRP, SSP, U320, or SBP.

15. The method of claim 1, wherein the second transport protocol includes a SCSI protocol.

16. The method of claim 1, wherein the second transport protocol is iSCSI, FCP, SRP, SSP, U320, or SCP.

17. The method of claim 1, wherein first transport protocol is equivalent to the second transport protocol.

18. The method of claim 1, wherein the host identifier includes at least one of a port World Wide name, a node World Wide name, a source identifier, an initiator identifier, an appliance port relative address, an iSCSI name, an Internet Protocol version 4 address (IPv4), an Internet Protocol version 6 address (IPv6), an infiniband (IB) Global Identifier, a serial attached SCSI (SAS) initiator address, an IEEE identifier, or a node identifier.

19. An information handling system for identifying host information at a physical layer of an information handling system, the information handling system comprising:

a host computer, the host computer issuing a command in a first transport protocol;

a device; and

an appliance, the appliance sending a host information command to the device, the host information command including a host identifier identifying the host that issued the command and a tag identifying a reissued command, the reissued command including the command reissued in a second transport protocol.

20. The information handling system of claim 19, wherein the appliance reissues the command to the device, the command being reissued in a second transport protocol.

21. The information handling system of claim 19, wherein the target device does not support command queuing, and wherein the appliance

receives a response from the device, the response being sent following a receipt of the host information command by the device; and

reissues the command to the device, the command being reissued in the second transport protocol.

22. The information handling system of claim 19, wherein an appliance receives the command issued from the host computer.

23. The information handling system of claim 19, wherein the host computer is provided access to the device.

24. The information handling system of claim 19, wherein the device executes the reissued command.

25. The information handling system of claim 24, the information handling system further comprising a priority database, the priority database associating a priority parameter and a command from a host, the priority parameter being a metric measuring a relative execution property of the command in the association, and wherein the reissued command is executed, based in part on the priority database.

26. The information handling system of claim 24, wherein the command includes a command for accessing encrypted data of the storage device, and wherein the data is decrypted based on the host information command.

27. The method of claim 24, wherein the command includes a command for writing data to the storage device, and wherein the data is encrypted based on the host information command.

28. The method of claim 19, wherein the first transport protocol is iSCSI, FCP, SRP, SSP, U320, SBP, or SCSI.

29. The method of claim 19, wherein the second transport protocol is iSCSI, FCP, SRP, SSP, U320, SCP, or SCSI.

30. The method of claim 19, wherein the host identifier includes at least one of a port World Wide name, a node World Wide name, a source identifier, an initiator identifier, an appliance port relative address, an iSCSI name, an Internet Protocol version 4 address (IPv4), an Internet Protocol version 6 address (IPv6), an infiniband (IB) Global Identifier, a serial attached SCSI (SAS) initiator address, an IEEE identifier, or a node identifier.

31. A data structure for identifying host information at a physical layer, the data structure comprising:

a protocol page field;

a page format field;

a tag field for associating the data structure to a host issued command;

a byte number field for identifying a number of bytes of host information, the host information identifying the host computer that issued the host issued command; and

a payload field, the payload field including at least a portion of the host information.